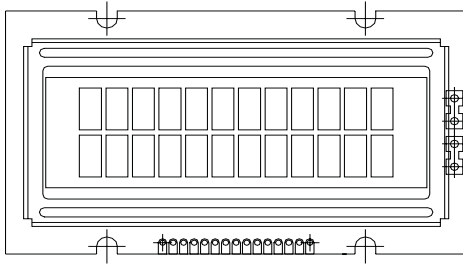


12 x 2 Character LCD


FEATURES

- 5 x 8 dots with cursor
- Built-in controller (KS 0066 or Equivalent)
- + 5V power supply
- 1/16 duty cycle
- B/L to be driven by pin 1, pin 2, or A.K (LED)

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module Dimension	55.7 x 32.0	mm
Viewing Area	46.0 x 14.5	mm
Dot Size	0.45 x 0.60	mm
Character Size	2.65 x 5.50	mm

ABSOLUTE MAXIMUM RATING					
ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	VDD-VSS	- 0.3	-	7.0	V
Input Voltage	VI	- 0.3	-	VDD	V

NOTE: VSS = 0 Volt, VDD = 5.0 Volt

ELECTRICAL SPECIFICATIONS						
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	VDD	VDD = + 5V	4.7	5.0	5.3	V
Supply Current	IDD	VDD = + 5V	-	1.5	3.0	mA
Recommended LC Driving Voltage for Normal Temp. Version Module	VDD - V0	- 20 °C	-	-	-	V
		0 °C	4.5	4.8	5.1	
		25 °C	4.1	4.4	4.7	
		50 °C	3.8	4.2	4.4	
		70 °C	-	-	-	
LED Forward Voltage	VF	25 °C	-	4.2	-	V
LED Forward Current	IF	25 °C	-	40	-	mA

DISPLAY CHARACTER ADDRESS CODE:								
Display Position	1	2	3	4	5	6	7	8
DD RAM Address	00	01						07
DD RAM Address	40	41						47

PIN NUMBER	SYMBOL	FUNCTION
1	V _{ss}	GND
2	V _{dd}	+ 5V
3	V _o	Contrast Adjustment
4	RS	H/L Register Select Signal
5	R/W	H/L Read/Write Signal
6	E	H → L Enable Signal
7	DB0	H/L Data Bus Line
8	DB1	H/L Data Bus Line
9	DB2	H/L Data Bus Line
10	DB3	H/L Data Bus Line
11	DB4	H/L Data Bus Line
12	DB5	H/L Data Bus Line
13	DB6	H/L Data Bus Line
14	DB7	H/L Data Bus Line
15	A	4.2V for LED

DIMENSIONS in millimeters

